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8c. ADDRESS (City, State, and ZIP Code)				10 SOURCE OF FUNDING NUMBERS				
				PROGRAM ELEMENT NO	PROJECT TASK NO NO.			WORK UNIT ACCESSION NO
BLU 92/B	CE ORIENTI MINES PAC		TESTING OF SAFET	Y AND ARMING	ASSEMBLI	ES FOR	THE BLU	J 91/B AND
12 PERSONAL DZURY, CH								
13a. TYPE OF REPORT 13b TIME			OVERED TO	14 DATE OF REPORT (Year, Month, Day) 15. PAGE COUNT			COUNT	
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17	COSATI	<del></del>	18. SUBJECT TERMS (	Continue on revers	se if necessary	and identi	fy by bloci	k number)
FIELD	GROUP	SUB-GROUP	-					
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19 ABSTRACT (Continue on reverse if necessary and identify by block number) This report contains the test results and test procedures for Performance Oriented Packaging Tests performed on the pack for both the Safety and Arming Assembly for the BLU 91/B Mine and the BLU 92/B Mine. This pack consists of 90 Safety and Arming Assemblies in a fiberboard box inner pack with a wooden box outer pack. Both Safety and Arming Assemblies are packed in the same way and have the same Proper Shipping Name and Identification Number which is "Fuzes, Detonating UN 0257".								
93-01652								
W UNCLAS	SIFIED/UNLIMIT	ILITY OF ABSTRACT ED SAME AS I	21 ABSTRACT SECURITY CLASSIFICATION UNCLASSIFIED					
22a NAME OF PESONSIBLE INDIVIDUAL STEVE RUFFINI				(201) 724-2515   SMCAR-AEP				

#### 1. DATA SHEET

Container:

Type: Box

UN Code: 4C

Specification Number: PPP-B-621

Material: Wood

Capacity: 6378.75 cubic inches

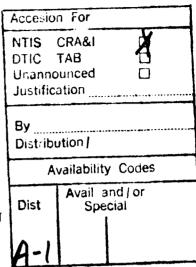
Dimensions: Inside: 26 1/4 X 20 1/4 X 12

Tolerance: ± 1/8

Packing and Marking Drawing: 9329607

Gross Container Weight: 48.5 lbs

Closure Method (Method/Type): Metal Strapping



### Product 1:

Name: Safety and Arming Assembly for the BLU 91/B Mine

NSN: 1345-01-153-2816

Proper Shipping Name: Fuzes, Detonating

Identification Number: UN 0257

Physical State: Solid

Quantity per Container: 90

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### Product 2:

Name: Safety and Arming Assembly for the BLU 92/B Mine

NSN: 1345-01-204-4282

Proper Shipping Name: Fuzes, Detonating

Identification Number: 0257

Physical State: Solid

Quantity per Container: 90

## 2. BACKGROUND:

This report contains the testing and test results performed on the pack for both the Safety and Arming Assembly for the BLU 91/B Mine and for the Safety and Arming Assembly for the BLU 92/B Mine. Both Safety and Arming Devices are packed fifteen (15) S & A's per fiberboard support, six (6) supports (90 S & A's total) per fiberboard box. A barrier bag is used either inside or outside of the fiberboard box for moisture protection. Each support consists of a flat section of fiberboard with fifteen S & A's laid on top. A plastic "blister" is placed on top of each S & A for protection and this whole configuration is sealed inside a skin packaging. The six supports are stacked inside the fiberboard box with fillers between each support and surrounding the stack to insure a tight pack and item protection. A desiccant bag is placed on top of each support for additional moisture protection. The sealed box is placed into a wood box which is sealed with metal strapping.

For purposes of testing, the fiberboard box was packed with steel weights and filler. After the the wood box was packed out, the final weight of each box tested was 68 lbs. The wood box was sealed with metal strapping.

#### 3. TESTING AND RESULTS:

The following tests were conducted in accordance with Code of Federal Regulations Title 49:

# a. Stacking Test:

Test No. 1:

Two boxes were placed under a load of 1580 lbs. for 24 hours. This exceeded the POP requirement which is the weight a box would see at the bottom of a stack ten feet high. There was no leakage or spillage of contents from the wood box.

Test No. 2:

One box was placed under a load of 770 lbs. for 24 hours. This exceeded the POP requirement which is the weight a box would see at the bottom of a stack ten feet high. There was no leakage or spillage of contents from wood box.

# b. Loose Cargo Test:

Test No. 1:

Two boxes, which were stack tested, were loose cargo tested for 1 hour on a table with a metal floor and wood constraining walls. There was no leakage or spillage of contents from the wood box.

Test No. 2:

One box, which was stack tested, was loose cargo tested for one hour on a loose cargo tested on a loose cargo table with a metal floor and wood restraining walls. There was no leakage or spillage of contents from the wood box.

## c. Drop Testing:

One box, which was stack tested and loose cargo tested, was drop tested onto a metal surface from four feet in the following orientations:

- 1. top
- 2. bottom
- 3. long side
- 4. short side
- 5. directly on a corner

There was no leakage or spillage of contents from the wood box.

# 4. CONCLUSION:

This packaging configuration has successfully met the requirements of Performance Oriented Packaging Testing (no leakage or spillage of contents from the packaging) and is considered safe for domestic and international shipment.